

mixture and reacted, as necessary, in the presence of nickel, cobalt, cadmium or zinc at 30° C for 22hr. The resultant product is subsequently purified and separated from the reaction solution by solvent partition and various chromatographies and high-performance liquid chromatography to afford the objective theanine ( $\gamma$ -glutamylethylamide).

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(54) PROPAGATION OF CULTURED TEA-CELL COLONY

(57)Abstract:

PURPOSE: To shorten the culturing period and to promote proliferation of cultured cell colonies useful as a raw material for producing useful components by improving the proliferation ratio of callus and cells in tissue culture of tea.

CONSTITUTION: Cultured cell colonies of tea are cultured in an ethylamine- containing

culture medium. In this culture, the concentration of ethylamine in the culture medium is adjusted to a prescribed value within a range of 2-95mM. Thereby, proliferation of the cultured cell colonies can be promoted while increasing the amount of accumulated theanine in the cultured cell colonies.